

CLAIM AMENDMENTS

1. (Currently Amended) A controlled debris perforating system, comprising:
a shaped charge having a charge case and an explosive material, the charge case defining at least one slot about which the charge case is adapted to fracture in response to detonation of the explosive material.
2. (Cancelled)
3. (Previously Presented) The controlled debris perforating system of claim 1, wherein the at least one slot is axially oriented.
- 4.-5. (Cancelled)
6. (Previously Presented) The controlled debris perforating system of claim 1, wherein the at least one slot is a V-notched groove.
7. (Previously Presented) The controlled debris perforating system of claim 1, wherein the at least one slot is an external slot.
- 8.-16. (Cancelled)
17. (Previously Presented) A method of using one or more shaped charges in a well, comprising:
providing a perforating string having one or more shaped charges, the shaped charges comprising a charge case defining at least one slot about which the charge case is adapted to fracture; and
conveying the perforating string into the well.
18. (Original) The method of claim 17, wherein the perforating string comprises a loading tube and carrier.

19. (Original) The method of claim 17, wherein the perforating string comprises a spiral gun.

20.-21. (Cancelled)

22. (Previously Presented) The controlled debris perforating system of claim 1, wherein the case comprises an opening to receive the explosive material and the opening is separate from said at least one slot.

23. (Previously Presented) The controlled debris perforating system of claim 1, wherein said at least slot comprises at least one groove formed in a wall of the case.

24. (Cancelled)

25. (Previously Presented) The controlled debris perforating system of claim 23, wherein said at least one groove is cut into the wall of the case.

26. (Cancelled)

27. (Previously Presented) The method of claim 17, wherein the case comprises an opening to receive an explosive material and the opening is separate from said at least one slot.

28. (Previously Presented) The method of claim 17, wherein said at least slot comprises at least one groove formed in a wall of the case.

29. (Cancelled)

30. (Previously Presented) The method of claim 28, wherein said at least one groove is cut into the wall of the case.

31.-32. (Cancelled)

33. (New) A method of controlling the debris during perforating, comprising:
providing a shaped charge having a charge case defining at least one groove about
which the charge case is adapted to fracture in response to detonation of an explosive.

34. (New) The method of claim 33, wherein said at least one groove is axially
oriented.

35. (New) The method of claim 33, wherein said at least one groove is located on the
outside of the charge case.

36. (New) A shaped charge made by a process, comprising:
inserting an explosive into a case;
inserting a liner over the main body of the explosive; and
machining at least one slot in the case about which the case is adapted to fracture
in response to detonation of the explosive.

37. (New) The shaped charge made by the process of claim 36, wherein said at least
one slot comprises a V-notched groove.

38. (New) The shaped charge made by the process of claim 36, wherein said at least
one slot is oriented axially.

39. (New) The shaped charge made by the process of claim 36, wherein said at least
one slot is located on the outside of the case.

40. (New) The shaped charge made by the process of claim 36, wherein said at least
one slot is cut into the case.

41. (New) The shaped charge made by the process of claim 36, wherein the case
comprises an opening to receive the explosive and the opening is separate from said at least one
slot.